CIVIL EXPERTS
CONSULTANTS & TESTING SERVICES

Date: 30/05/2021

TEST REPORT ON CONCRETE CUBES

Client	: Brahath Hangalore Mahanagara Palike
Agency	: CMC-S Limited
Name of the work	: Strengthening Pedestrian Foot Bridge at Shivajinagar Bus Stand, Opp. Civil College
Location	: Victoria Park to Kanti Square, CMC RF Path Shivajinagar to Victoria
Sample ID	: Cement Concrete
Size of cubes	: 150mm*150mm*150mm
Cross Sectional Area	: 22500 mm²
Technical Reference	: IS: 516-1959 (Reaffirmed 2018)
Grade of Concrete	: M30
Compressive Strength at	: 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm²)
1	01.05.2021	29.05.2021	8.341	596.5	26.51
2	01.05.2021	29.05.2021	8.368	466.5	20.73
3	01.05.2021	29.05.2021	8.314	521.6	23.18

Note:
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2. The results indicated above are based on the tests carried out on the samples received in the labo
3. Any Query regarding the report must be reported within 15 days from the date of testing.

For CIVIL EXPERTS

Authorised Signatory

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
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CIVIL XPERTS
SOLUTIONS & TESTING CENTRE

Date: 14.03.2021

Job No. CE/TC/NCC/21/0043

TEST REPORT ON CONCRETE CUBES

Client : Brahmah Bangalore Mahanagara Palike
Agency : NCC Limited
Name of the work : Providing Subways from Shanthinagar to Hare Krishna Road Junction
: Sir Krishna Rajaya Junction
: Vidhana Park to Kasu Saudha (Old KSRTC Building) to HRBR

Location :

Sample ID : Queen Concrete
Size of Cube : 150mm X 150mm X 150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS 516:1959 (Reaffirmed 2018)
Grade of Concrete : M30
Compressive Strength as on : 7 days

S.No	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (kN)	Compressive strength (N/mm^2)
1	07.03.2021	14.03.2021	8.439	362.5	16.11
2	07.03.2021	14.03.2021	8.146	336.3	14.96
3	07.03.2021	14.03.2021	8.163	344.9	15.33

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For CIVIL EXPERTS

Authorised Signature

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Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Date: 04.06.2021

Job No.: CECTC/NCC/QC/2020-21

TEST REPORT ON CONCRETE CUBES

Client : **Bruhath Bangaluru Mahanagara Palike**
Agency : **NCC Limitted**
Name of the work : Whitetopping Yelahanka from Sheshadripuram First Grade College To Arama Bakery Junction
Location : Vishnu Park to Kanti Sweets- LHS & RHS Ch:450.00 to 1100.00

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2018)
Grade of Concrete : M_{20}
Compressive Strength as : 28 days
on

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.05.2021	04.06.2021	8.263	502.3	22.32
2	07.05.2021	04.06.2021	8.225	536.5	23.84
3	07.05.2021	04.06.2021	8.214	541.6	24.07

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For CIVIL EXPERTS
Authorised Signature

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Job No.: CECTC/NCC/QC/2020-21

Date: 19.05.2021

TEST REPORT ON CONCRETE CUBES

Client	: Bruhath Bangaluru Mahanagara Palike
Agency	: **NCC Limitted**
Name of the work	: Whitetopping Yelahanka from Sheshadripuram First Grade College To Arama Bakery Junction
Location	: Vishnu Park to Kanti Sweets- LHS & RHS Ch:450.00 to 1100.00
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2018)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.05.2021	19.05.2021	8.145	341.5	15.18
2	12.05.2021	19.05.2021	8.163	325.6	14.47
3	12.05.2021	19.05.2021	8.126	341.8	15.19

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Job No.: CECTC/NCC/QC/2020-21

Date: 09.06.2021

TEST REPORT ON CONCRETE CUBES

Client : **Bruhath Bangaluru Mahanagara Palike**
Agency : **NCC Limitted**
Name of the work : Whitetopping Yelahanka from Sheshadripuram First Grade College To Arama Bakery Junction
Location : Vishnu Park to Kanti Sweets- LHS & RHS Ch:450.00 to 1100.00

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2018)
Grade of Concrete : M_{20}
Compressive Strength as on : 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.05.2021	09.06.2021	8.214	463.5	20.60
2	12.05.2021	09.06.2021	8.263	458.2	20.36
3	12.05.2021	09.06.2021	8.218	496.5	22.07

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For CIVIL EXPERTS
Authorised Signature

Reviewed

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Soil Stabilization and Shoring Services | Non - Destructive Testing

Date: 25.05.2021

Job No.: CECTC/NCC/QC/2020-21

TEST REPORT ON CONCRETE CUBES

Client	: **Bruhath Bangaluru Mahanagara Palike**
Agency	: **NCC Limitted**
Name of the work	: Whitetopping Yelahanka from Sheshadripuram First Grade College To Arama Bakery Junction
Location	: Vishnu Park to Kanti Sweets- LHS & RHS Ch:450.00 to 1100.00
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2018)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.05.2021	25.05.2021	8.185	352.6	15.67
2	18.05.2021	25.05.2021	8.163	332.5	14.78
3	18.05.2021	25.05.2021	8.142	362.9	16.13

Asst. Executive Engineer Project Division Yelahanka Zone, BBMP, Bangalore-92

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Authorised Signature

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Date: 15.06.2021

Job No.: CECTC/NCC/QC/2020-21

TEST REPORT ON CONCRETE CUBES

Client : **Bruhath Bangaluru Mahanagara Palike**
Agency : **NCC Limitted**
Name of the work : Whitetopping Yelahanka from Sheshadripuram First Grade College To Arama Bakery Junction
Location : Vishnu Park to Kanti Sweets- LHS & RHS Ch:450.00 to 1100.00
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2018)
Grade of Concrete : M_{20}
Compressive Strength as : 28 days
on

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.05.2021	15.06.2021	8.206	485.6	21.58
2	18.05.2021	15.06.2021	8.225	536.2	23.83
3	18.05.2021	15.06.2021	8.266	541.6	24.07

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For CIVIL EXPERTS
Authorised Signature

Executive Engineer
Project Division
Yelahanka Zone
Bangalore - 92

Infra Support Engineering Consultants Pvt. Ltd. Bengaluru

Reviewed

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Date: 28.05.2021

Job No.: CECTC/NCC/QC/2020-21

TEST REPORT ON CONCRETE CUBES

Client	: **Bruhath Bangaluru Mahanagara Palike**
Agency	: **NCC Limitted**
Name of the work	: Whitetopping Yelahanka from Sheshadripuram First Grade College To Arama Bakery Junction
Location	: Vishnu Park to Kanti Sweets- LHS & RHS Ch:450.00 to 1100.00
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2018)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.05.2021	28.05.2021	8.225	365.8	16.26
2	21.05.2021	28.05.2021	8.263	352.6	15.67
3	21.05.2021	28.05.2021	8.214	362.5	16.11

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For CIVIL EXPERTS
Authorised Signature

Received

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Date: 03.06.2021

Job No.: CECTC/NCC/QC/2020-21

TEST REPORT ON CONCRETE CUBES

Client	: **Bruhath Bangaluru Mahanagara Palike**
Agency	: **NCC Limitted**
Name of the work	: Whitetopping Yelahanka from Sheshadripuram First Grade College To Arama Bakery Junction
Location	: Vishnu Park to Kanti Sweets- LHS & RHS Ch:450.00 to 1100.00
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2018)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.05.2021	03.06.2021	8.163	375.6	16.69
2	27.05.2021	03.06.2021	8.145	345.6	15.36
3	27.05.2021	03.06.2021	8.159	336.5	14.96

Executive Engineer Project Division Yelahanka Zone BBMP, Bangalore - 92

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Authorised Signature

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Soil Stabilization and Shoring Services | Non - Destructive Testing

Date: 24.06.2021

Job No.: CECTC/NCC/QC/2020-21

TEST REPORT ON CONCRETE CUBES

Client	: **Bruhath Bangaluru Mahanagara Palike**
Agency	: **NCC Limitted**
Name of the work	: Whitetopping Yelahanka from Sheshadripuram First Grade College To Arama Bakery Junction
Location	: Vishnu Park to Kanti Sweets- LHS & RHS Ch-450.00 to 1100.00
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2018)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.05.2021	24.06.2021	8.226	499.8	22.21
2	27.05.2021	24.06.2021	8.214	536.5	23.84
3	27.05.2021	24.06.2021	8.263	502.8	22.35

Executive Engineer Project Division Yelahanka Zone BBMP, Bengaluru-02

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For CIVIL EXPERTS
Authorised Signature

NCC LIMITED BANGALORE

Infra Support Engineering Consultants Pvt. Ltd. Bengaluru

Reviewed

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Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CIVCTC/NCC/QC/2020-21 Date: 10.06.2021

TEST REPORT ON CONCRETE CUBES

Client	: **Bruhath Bangaluru Mahanagara Palike**
Agency	: **NCC Limited**
Name of the work	: Whitetopping Yelahanka from Sheshadripuram First Grade College To Arama Bakery Junction
Location	: Vishnu Park to Kanti Sweets- LHS & RHS Ch:45000 to 110000
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2018)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.06.2021	10.06.2021	8.152	352.6	15.67
2	03.06.2021	10.06.2021	8.145	362.5	16.11
3	03.06.2021	10.06.2021	8.163	341.8	15.19

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Job No.: CECTC/NCC/QC/2020-21

Date: 10.06.2021

TEST REPORT ON CONCRETE CUBES

Client : **Bruhath Bangaluru Mahanagara Palike**
Agency : **NCC Limitted**
Name of the work : Whitetopping Yelahanka from Sheshadripuram First Grade College To Arama Bakery Junction
Location : Vishnu Park to Kanti Sweets- LHS & RHS Ch:450.00 to 1100.00

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2018)
Grade of Concrete : M_{20}
Compressive Strength as on : 7 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.06.2021	10.06.2021	8.152	352.6	15.67
2	03.06.2021	10.06.2021	8.145	362.5	16.11
3	03.06.2021	10.06.2021	8.163	341.8	15.19

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Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/NCC/QC/2020-21

Date: 01.07.2021

TEST REPORT ON CONCRETE CUBES

Client	: **Bruhath Bangaluru Mahanagara Palike**
Agency	: **NCC Limitted**
Name of the work	: Whitetopping Yelahanka from Sheshadripuram First Grade College To Arama Bakery Junction
Location	: Vishnu Park to Kanti Sweets- LHS & RHS Ch:450.00 to 1100.00
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2018)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.06.2021	01.07.2021	8.214	496.2	22.05
2	03.06.2021	01.07.2021	8.263	502.3	22.32
3	03.06.2021	01.07.2021	8.215	536.2	23.83

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Job No: CECTC/NCC/QC/2020-21 Date: 01.07.2021

TEST REPORT ON CONCRETE CUBES

Client : **Bruhath Bangaluru Mahanagara Palike**
Agency : **NCC Limitted**
Name of the work : Whitetopping Yelahanka from Sheshadripuram First Grade College To Arama Bakery Junction
Location : Vishnu Park to Kanti Sweets- LHS & RHS Ch:450.00 to 1100.00

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2018)
Grade of Concrete : M_{20}
Compressive Strength as on : 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.06.2021	01.07.2021	8.214	496.2	22.05
2	03.06.2021	01.07.2021	8.263	502.3	22.32
3	03.06.2021	01.07.2021	8.215	536.2	23.83

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For CIVIL EXPERTS
Authorised Signature

Infra Support Engineering Consultants Pvt. Ltd. Bengaluru

Reviewed

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
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Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No: CECTC/NCC/QC/2020-21

Date: 17.06.2021

TEST REPORT ON CONCRETE CUBES

Client	: **Bruhath Bangaluru Mahanagara Palike**
Agency	: **NCC Limitted**
Name of the work	: Whitetopping Yelahanka from Sheshadripuram First Grade College To Arama Bakery Junction
Location	: Vishnu Park to Kanti Sweets- LHS & RHS Ch:450.00 to 1100.00
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2018)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.06.2021	17.06.2021	8.145	326.5	14.51
2	10.06.2021	17.06.2021	8.163	352.6	15.67
3	10.06.2021	17.06.2021	8.196	374.8	16.66

Note:
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Date: 17.06.2021

Job No.: CECTC/NCC/QC/2020-21

TEST REPORT ON CONCRETE CUBES

Client	: **Bruhath Bangaluru Mahanagara Palike**
Agency	: **NCC Limitted**
Name of the work	: Whitetopping Yelahanka from Sheshadripuram First Grade College To Arama Bakery Junction
Location	: Vishnu Park to Kanti Sweets- LHS & RHS Ch:450.00 to 1100.00
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2018)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.06.2021	17.06.2021	8.145	326.5	14.51
2	10.06.2021	17.06.2021	8.163	352.6	15.67
3	10.06.2021	17.06.2021	8.196	374.8	16.66

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Job No.: CECTC/NCC/QC/2020-21

Date: 21.06.2021

TEST REPORT ON CONCRETE CUBES

Client : **Bruhath Bangaluru Mahanagara Palike**
Agency : **NCC Limitted**
Name of the work : Whitetopping Yelahanka from Sheshadripuram First Grade College To Arama Bakery Junction
Location : Vishnu Park to Kanti Sweets- LHS & RHS Ch:450.00 to 1100.00

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2018)
Grade of Concrete : M_{20}
Compressive Strength as on : 7 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.06.2021	21.06.2021	8.169	344.5	15.31
2	14.06.2021	21.06.2021	8.147	362.5	16.11
3	14.06.2021	21.06.2021	8.196	336.2	14.94

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Job No: CECTC/NCC/QC/2020-21

Date: 21.06.2021

TEST REPORT ON CONCRETE CUBES

Client : **Bruhath Bangaluru Mahanagara Palike**
Agency : **NCC Limitted**
Name of the work : Whitetopping Yelahanka from Sheshadripuram First Grade College To Arama Bakery Junction
Location : Vishnu Park to Kanti Sweets- LHS & RHS Ch:450.00 to 1100.00

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2018)
Grade of Concrete : M_{20}
Compressive Strength as on : 7 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.06.2021	21.06.2021	8.169	344.5	15.31
2	14.06.2021	21.06.2021	8.147	362.5	16.11
3	14.06.2021	21.06.2021	8.196	336.2	14.94

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Soil Stabilization and Shoring Services | Non - Destructive Testing

Date: 12.07.2021

Job No: CECTC/NCC/QC/2020-21

TEST REPORT ON CONCRETE CUBES

Client	: **Bruhath Bangaluru Mahanagara Palike**
Agency	: **NCC Limitted**
Name of the work	: Whitetopping Yelahanka from Sheshadripuram First Grade College To Arama Bakery Junction
Location	: Vishnu Park to Kanti Sweets- LHS & RHS Ch:450.00 to 1100.00
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2018)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.06.2021	12.07.2021	8.214	533.6	23.72
2	14.06.2021	12.07.2021	8.251	485.6	21.58
3	14.06.2021	12.07.2021	8.263	496.5	22.07

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Authorised Signature

Received

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Ref No. CE/TC/NCC/JC/2020-21 Date: 12.07.2021

TEST REPORT ON CONCRETE CUBES

Client : Bruhath Bangaluru Mahanagara Palike
Agency : NCC Limited
Name of the work : Widening & Strengthening Tataguni from Shesadripuram First Grade College To Arasu Bakery Junction
Location : Vishnu Park to Kanti Sweets- LHS & RHS Ch:450.00 to 1100.00
Sample ID : Cement Concrete
Size of cubes : 150mm*150mm*150mm
Cross Sectional Area : 22500 mm²
Technical Reference : IS: 516-1959 (Reaffirmed 2013)
Grade of Concrete : M_{30}
Compressive Strength at : 28 days
as : Registered

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.06.2021	12.07.2021	8.204	533.6	23.72
2	14.06.2021	12.07.2021	8.251	485.6	21.58
3	14.06.2021	12.07.2021	8.268	496.5	22.07

Note:
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For CIVIL EXPERTS

Authorised Signatory

Approved Signatory

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